Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Original) A method of displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a plurality of types including information of a first type and information of a second type, the method comprising:

displaying a graphical user interface (GUI) on the display;

displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type and a representation of information of the second type;

displaying a first lens covering a first portion of the first area; and

displaying, in a second area of the GUI, a representation of multimedia information displayed in the first portion of the first area, the representation of multimedia information displayed in the second area comprising a portion of the representation of information of the first type covered by the first lens and a portion of the representation of information of the second type covered by the first lens.

2. (Original) The method of claim 1 wherein displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type.

3. (Original) The method of claim 1 wherein displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI.

4. (Original) The method of claim 1 wherein displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

determining a first time and a second time associated with the first lens;

displaying, in the second area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the first lens; and

displaying, in the second area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the first lens.

5. (Original) The method of claim 1 further comprising:

receiving user input moving the first lens to cover a second portion of the first area; and

responsive to the user input, automatically changing the information displayed in the second area of the GUI such that the representation of multimedia information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area.

6. (Original) The method of claim 1 further comprising:

displaying a second lens covering a first portion of the second area; and

displaying, in a third area of the GUI, a representation of multimedia information corresponding to the first portion of the second area, the representation of multimedia

information displayed in the third area comprising a portion of the representation of information of the first type covered by the second lens and a portion of the representation of information of the second type covered by the second lens.

7. (Original) The method of claim 6 wherein displaying, in the third area of the GUI, the representation of multimedia information corresponding to the first portion of the second area comprises:

determining a first time and a second time associated with the second lens;

displaying, in the third area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the second lens; and

displaying, in the third area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the second lens.

8. (Original) The method of claim 6 wherein:

displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type;

displaying the representation of multimedia information displayed in the first portion of the first area in the second area of the GUI comprises:

displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI; and

displaying the representation of multimedia information corresponding to the first portion of the second area in the third area of the GUI comprises:

displaying the representation of information of the first type corresponding to the first portion of the second area of the GUI in a first sub-area of the third area of the GUI; and

displaying the representation of information of the second type corresponding to the first portion of the second area of the GUI in a second sub-area of the third area of the GUI.

9. (Original) The method of claim 6 further comprising:

receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, automatically changing the information displayed in the third area of the GUI such that the representation of multimedia information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

10. (Original) The method of claim 6 further comprising:

receiving a user input moving the first lens to cover a second portion of the first area; and

responsive to the user input, automatically:

changing the information displayed in the second area of the GUI such that the representation of multimedia information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area; and

changing the information displayed in the third area of the GUI such that the representation of multimedia information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

11. (Original) The method of claim 6 further comprising:

displaying a sub-lens covering a portion of the first area of the GUI corresponding to the first portion of the second area of the GUI covered by the second lens.

12. (Original) The method of claim 11 further comprising:

receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, automatically changing a position of the sub-lens to cover a portion of the first area of the GUI corresponding to the second portion of the second area.

13. (Original) The method of claim 1 wherein:

the information of the first type corresponds to video information; and

the representation of the information of the first type comprises one or more video keyframes extracted from the video information.

14. (Original) The method of claim 13 wherein:

the information of the second type corresponds to audio information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

15. (Original) The method of claim 13 wherein:

the information of the second type corresponds to closed-caption (CC) text information; and

the representation of information of the second type comprises text information included in the CC text information.

16. (Original) The method of claim 1 further comprising:

receiving information indicating a user-specified concept of interest; and

analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the user-specified concept of interest;

wherein displaying the representation of multimedia information in the first area of the GUI comprises annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest; and

wherein displaying, in the second area of the GUI, a representation of multimedia information displayed in the first portion of the first area comprises annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest and that are located in the first portion of the first area.

17. (Original) The method of claim 1 further comprising:

receiving input indicating selection of a portion of the multimedia information occurring between a first time and a second time; and

performing a first operation on the portion of the multimedia information occurring between a first time and a second time.

18. (Original) A method of displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a first type and information of a second type, the method comprising:

displaying a graphical user interface (GUI) on the display;

displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type occurring between t_s and t_e and a representation of information of the second type occurring between t_s and t_e, where ($t_e > t_s$);

displaying a first lens emphasizing a portion of the first area of the GUI, the portion of the first area emphasized by the first lens comprising a representation of multimedia information occurring between a first time (t_1) and a second time (t_2), where ($t_s \leq t_1 < t_2 \leq t_e$); and

displaying, in a second area of the GUI, the representation of multimedia information occurring between t_1 and t_2, the representation of multimedia information displayed

in the second area comprising a representation of information of the first type occurring between t_1 and t_2 and a representation of information of the second type occurring between t_1 and t_2.

19. (Original) The method of claim 18 further comprising:

displaying a second lens emphasizing a portion of the second area of the GUI, the portion of the second area emphasized by the second lens comprising a representation of multimedia information occurring between a third time (t_3) and a fourth time (t_4), where ($t_1 \leq t_3 < t_4 \leq t_2$); and

displaying, in a third area of the GUI, the representation of multimedia information occurring between t_3 and t_4, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_3 and t_4 and a representation of information of the second type occurring between t_3 and t_4.

20. (Original) The method of claim 19 further comprising:

changing the position of the first lens in response to user input such that the first lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_s \leq t_5 < t_6 \leq t_e$), ($t_5 \neq t_1$), and ($t_6 \neq t_2$); and

responsive to the change in the position of the first lens, automatically displaying, in the second area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the second area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

21. (Original) The method of claim 19 further comprising:

changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

responsive to the change in the position of the second lens, automatically displaying, in the third area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

22. (Original) The method of claim 19 further comprising:

displaying a third lens emphasizing a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_3 and t_4.

23. (Original) The method of claim 22 further comprising:

changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

responsive to the change in the position of the second lens, automatically changing the position of the third lens such that the third lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_5 and t_6.

24. (Original) The method of claim 18 wherein:

the information of the first type is video information;

the information of the second type is audio information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

25. (Original) The method of claim 18 wherein:

the information of the first type is video information;

the information of the second type is closed-caption (CC) text information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of the information of the second type comprises text information included in the CC text information.

26. (Original) The method of claim 18 further comprising:

receiving information indicating a first topic; and

analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the first topic;

wherein displaying the representation of the multimedia information stored by the multimedia document occurring between t_s and t_e in the first area of the GUI comprises highlighting the one or more locations in the multimedia information displayed in the first area of the GUI; and

wherein displaying the representation of multimedia information occurring between t_1 and t_2 in the second area of the GUI comprises highlighting the one or more locations in the multimedia information that occur between times t_1 and t_2.

27. (Original) The method of claim 18 further comprising:

receiving input indicating selection of a portion of the multimedia information occurring between a selection start time and a selection end time; and

performing a first operation on the portion of the multimedia information occurring between the selection start time and the selection end time.

28. (Original) A method of displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising video information and information of a first type, the method comprising:

displaying a graphical user interface (GUI) on the display;

displaying, in a first section of a first area of the GUI, a first set of one or more video keyframes extracted from the video information occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, where ($t_e > t_s$);

displaying, in a second section of the first area of the GUI, text information corresponding to the information of the first type occurring between t_s and t_e;

displaying a first lens emphasizing a portion of the first section of the first area occurring between a first time (t_1) and a second time (t_2) and a portion of the second section of the first area occurring between t_1 and t_2, the emphasized portion of the first section of the first area comprising a second set of one or more video keyframes extracted from the video information occurring between t_1 and t_2, the emphasized portion of the second section of the first area comprising text information corresponding to information of the first type occurring between t_1 and t_2, wherein the second set of one or more keyframes is a subset of the first set of one or more keyframes and ($t_s \leq t_1 < t_2 \leq t_e$);

displaying the second set of one or more keyframes in a first section of a second area of the GUI; and

displaying text information corresponding to the information of the first type occurring between t_1 and t_2 in a second section of the second area of the GUI.

29. (Original) The method of claim 28 further comprising:

displaying a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

displaying a keyframe from the third set of one or more keyframes in a first section of a third area of the GUI; and

displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

30. (Original) The method of claim 28 further comprising:

displaying a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

outputting video information starting from t_3 or from t_4 or from a time between t_3 and t_4 in a first section of a third area of the GUI; and

displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

31. (Original) The method of claim 28 wherein the information of the first type is audio information, and the text information corresponding to the information of the first type is obtained from transcribing the audio information.

32. (Original) The method of claim 28 wherein the information of the first type is closed-caption (CC) text information, and the text information corresponding to the information of the first type is extracted from the CC text information.

33. (Original) The method of claim 28 wherein the multimedia information stored by the multimedia document further comprises slides information, the method comprising:

displaying, in a third section of the first area of the GUI, a first set of one or more slides extracted from the slides information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a second set of one or more

slides extracted from the slides information occurring between t_1 and t_2, the second set of one or more slides is a subset of the first set of one or more slides; and

displaying the second set of one or more slides in a third section of the second area of the GUI

34. (Original) The method of claim 33 further comprising:

displaying a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more slides extracted from the slides information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more slides is a subset of the second set of one or more slides, and ($t_1 \leq t_3 < t_4 \leq t_2$);

displaying at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

displaying at least one slide from the third set of one or more slides in a third section of the third area of the GUI.

35. (Original) The method of claim 28 wherein the multimedia information stored by the multimedia document further comprises whiteboard images information, the method comprising:

displaying, in a third section of the first area of the GUI, a first set of one or more whiteboard images extracted from the whiteboard images information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a

second set of one or more whiteboard images extracted from the whiteboard images information occurring between t_1 and t_2, the second set of one or more whiteboard images is a subset of the first set of one or more whiteboard images; and

displaying the second set of one or more whiteboard images in a third section of the second area of the GUI.

36. (Original) The method of claim 35 further comprising:

displaying a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more whiteboard images extracted from the whiteboard images information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more whiteboard images is a subset of the second set of one or more whiteboard images, and ($t_1 \leq t_3 < t_4 \leq t_2$);

displaying at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

displaying a whiteboard images from the third set of one or more whiteboard images in a third section of the third area of the GUI.

37. (Original) A system for displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a plurality of types including information of a first type and information of a second type, the system comprising:

means for displaying a graphical user interface (GUI) on the display;

means for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type and a representation of information of the second type;

means for displaying a first lens covering a first portion of the first area; and

means for displaying, in a second area of the GUI, a representation of multimedia information displayed in the first portion of the first area, the representation of multimedia information displayed in the second area comprising a portion of the representation of information of the first type covered by the first lens and a portion of the representation of information of the second type covered by the first lens.

38. (Original) A system for displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a first type and information of a second type, the system comprising:

means for displaying a graphical user interface (GUI) on the display;

means for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type occurring between t_s and t_e and a representation of information of the second type occurring between t_s and t_e, where ($t_e > t_s$);

means for displaying a first lens emphasizing a portion of the first area of the GUI, the portion of the first area emphasized by the first lens comprising a representation of multimedia information occurring between a first time (t_1) and a second time (t_2), where ($t_s \leq t_1 < t_2 \leq t_e$); and

means for displaying, in a second area of the GUI, the representation of multimedia information occurring between t_1 and t_2, the representation of multimedia information displayed in the second area comprising a representation of information of the first

type occurring between t_1 and t_2 and a representation of information of the second type occurring between t_1 and t_2.

39. (Original) A system for of displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising video information and information of a first type, the system comprising:

means for displaying a graphical user interface (GUI) on the display;

means for displaying, in a first section of a first area of the GUI, a first set of one or more video keyframes extracted from the video information occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, where ($t_e > t_s$);

means for displaying, in a second section of the first area of the GUI, text information corresponding to the information of the first type occurring between t_s and t_e;

means for displaying a first lens emphasizing a portion of the first section of the first area occurring between a first time (t_1) and a second time (t_2) and a portion of the second section of the first area occurring between t_1 and t_2, the emphasized portion of the first section of the first area comprising a second set of one or more video keyframes extracted from the video information occurring between t_1 and t_2, the emphasized portion of the second section of the first area comprising text information corresponding to information of the first type occurring between t_1 and t_2, wherein the second set of one or more keyframes is a subset of the first set of one or more keyframes and ($t_s \leq t_1 < t_2 \leq t_e$);

means for displaying the second set of one or more keyframes in a first section of a second area of the GUI; and

means for displaying text information corresponding to the information of the first type occurring between t_1 and t_2 in a second section of the second area of the GUI.

40. (Original) A computer program product stored on a computer-readable storage medium for displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a plurality of types including information of a first type and information of a second type, the computer program product comprising:

code for displaying a graphical user interface (GUI) on the display;

code for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type and a representation of information of the second type;

code for displaying a first lens covering a first portion of the first area; and

code for displaying, in a second area of the GUI, a representation of multimedia information displayed in the first portion of the first area, the representation of multimedia information displayed in the second area comprising a portion of the representation of information of the first type covered by the first lens and a portion of the representation of information of the second type covered by the first lens.

41. (Original) The computer program product of claim 40 wherein the code for displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

code for displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

code for displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type.

42. (Original) The computer program product of claim 40 wherein the code for displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

code for displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

code for displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI.

43. (Original) The computer program product of claim 40 wherein the code for displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

code for determining a first time and a second time associated with the first lens;

code for displaying, in the second area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the first lens; and

code for displaying, in the second area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the first lens.

44. (Original) The computer program product of claim 40 further comprising:

code for receiving user input moving the first lens to cover a second portion of the first area; and

code for responsive to the user input, automatically changing the information displayed in the second area of the GUI such that the representation of multimedia information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area.

45. (Original) The computer program product of claim 40 further comprising:

code for displaying a second lens covering a first portion of the second area; and

code for displaying, in a third area of the GUI, a representation of multimedia information corresponding to the first portion of the second area, the representation of multimedia information displayed in the third area comprising a portion of the representation of information of the first type covered by the second lens and a portion of the representation of information of the second type covered by the second lens.

46. (Original) The computer program product of claim 45 wherein the code for displaying, in the third area of the GUI, the representation of multimedia information corresponding to the first portion of the second area comprises:

code for determining a first time and a second time associated with the second lens;

code for displaying, in the third area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the second lens; and

code for displaying, in the third area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the second lens.

47. (Original) The computer program product of claim 45 wherein:

the code for displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

code for displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

code for displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type;

the code for displaying the representation of multimedia information displayed in the first portion of the first area in the second area of the GUI comprises:

code for displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

code for displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI; and

the code for displaying the representation of multimedia information corresponding to the first portion of the second area in the third area of the GUI comprises:

code for displaying the representation of information of the first type corresponding to the first portion of the second area of the GUI in a first sub-area of the third area of the GUI; and

code for displaying the representation of information of the second type corresponding to the first portion of the second area of the GUI in a second sub-area of the third area of the GUI.

48. (Original) The computer program product of claim 45 further comprising:

code for receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, code for automatically changing the information displayed in the third area of the GUI such that the representation of multimedia information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

49. (Original) The computer program product of claim 45 further comprising:

code for receiving a user input moving the first lens to cover a second portion of the first area; and

responsive to the user input, code for automatically:

changing the information displayed in the second area of the GUI such that the representation of multimedia information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area; and

changing the information displayed in the third area of the GUI such that the representation of multimedia information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

50. (Original) The computer program product of claim 45 further comprising:

code for displaying a sub-lens covering a portion of the first area of the GUI corresponding to the first portion of the second area of the GUI covered by the second lens.

51. (Original) The computer program product of claim 50 further comprising:

code for receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, code for automatically changing a position of the sub-lens to cover a portion of the first area of the GUI corresponding to the second portion of the second area.

52. (Original) The computer program product of claim 40 wherein:

the information of the first type corresponds to video information; and

the representation of the information of the first type comprises one or more video keyframes extracted from the video information.

53. (Original) The computer program product of claim 52 wherein:

the information of the second type corresponds to audio information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

54. (Original) The computer program product of claim 52 wherein:

the information of the second type corresponds to closed-caption (CC) text information; and

the representation of information of the second type comprises text information included in the CC text information.

55. (Original) The computer program product of claim 40 further comprising:

code for receiving information indicating a user-specified concept of interest; and

code for analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the user-specified concept of interest;

wherein the code for displaying the representation of multimedia information in the first area of the GUI comprises code for annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest; and

wherein the code for displaying, in the second area of the GUI, a representation of multimedia information displayed in the first portion of the first area comprises code for annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest and that are located in the first portion of the first area.

56. (Original) The computer program product of claim 40 further comprising:

code for receiving input indicating selection of a portion of the multimedia information occurring between a first time and a second time; and

code for performing a first operation on the portion of the multimedia information occurring between a first time and a second time.

57. (Original) A computer program product stored on a computer-readable storage medium for displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising information of a first type and information of a second type, the computer program product comprising:

code for displaying a graphical user interface (GUI) on the display;

code for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type occurring between t_s and t_e and a representation of information of the second type occurring between t_s and t_e, where ($t_e > t_s$);

code for displaying a first lens emphasizing a portion of the first area of the GUI, the portion of the first area emphasized by the first lens comprising a representation of multimedia information occurring between a first time (t_1) and a second time (t_2), where ($t_s \leq t_1 < t_2 \leq t_e$); and

code for displaying, in a second area of the GUI, the representation of multimedia information occurring between t_1 and t_2, the representation of multimedia information displayed in the second area comprising a representation of information of the first type occurring between t_1 and t_2 and a representation of information of the second type occurring between t_1 and t_2.

58. (Original) The computer program product of claim 57 further comprising:

code for displaying a second lens emphasizing a portion of the second area of the GUI, the portion of the second area emphasized by the second lens comprising a representation of multimedia information occurring between a third time (t_3) and a fourth time (t_4), where ($t_1 \leq t_3 < t_4 \leq t_2$); and

code for displaying, in a third area of the GUI, the representation of multimedia information occurring between t_3 and t_4, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_3 and t_4 and a representation of information of the second type occurring between t_3 and t_4.

59. (Original) The computer program product of claim 58 further comprising:

code for changing the position of the first lens in response to user input such that the first lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_s \leq t_5 < t_6 \leq t_e$), ($t_5 \neq t_1$), and ($t_6 \neq t_2$); and

responsive to the change in the position of the first lens, code for automatically displaying, in the second area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the second area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

60. (Original) The computer program product of claim 58 further comprising:

code for changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a

representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

code for responsive to the change in the position of the second lens, automatically displaying, in the third area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

61. (Original) The computer program product of claim 58 further comprising:

code for displaying a third lens emphasizing a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_3 and t_4.

62. (Original) The computer program product of claim 61 further comprising:

code for changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

code for responsive to the change in the position of the second lens, automatically changing the position of the third lens such that the third lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_5 and t_6.

63. (Original) The computer program product of claim 57 wherein:

the information of the first type is video information;

the information of the second type is audio information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

64. (Original) The computer program product of claim 57 wherein:

the information of the first type is video information;

the information of the second type is closed-caption (CC) text information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of the information of the second type comprises text information included in the CC text information.

65. (Original) The computer program product of claim 57 further comprising:

code for receiving information indicating a first topic; and

code for analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the first topic;

wherein the code for displaying the representation of the multimedia information stored by the multimedia document occurring between t_s and t_e in the first area of the GUI comprises code for highlighting the one or more locations in the multimedia information displayed in the first area of the GUI; and

wherein the code for displaying the representation of multimedia information occurring between t_1 and t_2 in the second area of the GUI comprises code for highlighting the one or more locations in the multimedia information that occur between times t_1 and t_2.

66. (Original) The computer program product of claim 57 further comprising:

code for receiving input indicating selection of a portion of the multimedia information occurring between a selection start time and a selection end time; and

code for performing a first operation on the portion of the multimedia information occurring between the selection start time and the selection end time.

67. (Original) A computer program product stored on a computer-readable storage medium for displaying multimedia information stored in a multimedia document on a

display, the multimedia information comprising video information and information of a first type, the computer program product comprising:

code for displaying a graphical user interface (GUI) on the display;

code for displaying, in a first section of a first area of the GUI, a first set of one or more video keyframes extracted from the video information occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, where ($t_e > t_s$);

code for displaying, in a second section of the first area of the GUI, text information corresponding to the information of the first type occurring between t_s and t_e;

code for displaying a first lens emphasizing a portion of the first section of the first area occurring between a first time (t_1) and a second time (t_2) and a portion of the second section of the first area occurring between t_1 and t_2, the emphasized portion of the first section of the first area comprising a second set of one or more video keyframes extracted from the video information occurring between t_1 and t_2, the emphasized portion of the second section of the first area comprising text information corresponding to information of the first type occurring between t_1 and t_2, wherein the second set of one or more keyframes is a subset of the first set of one or more keyframes and ($t_s \leq t_1 < t_2 \leq t_e$);

code for displaying the second set of one or more keyframes in a first section of a second area of the GUI; and

code for displaying text information corresponding to the information of the first type occurring between t_1 and t_2 in a second section of the second area of the GUI.

68. (Original) The computer program product of claim 67 further comprising:

code for displaying a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of

one or more video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

code for displaying a keyframe from the third set of one or more keyframes in a first section of a third area of the GUI; and

code for displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

69. (Original) The computer program product of claim 67 further comprising:

code for displaying a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

code for outputting video information starting from t_3 or from t_4 or from a time between t_3 and t_4 in a first section of a third area of the GUI; and

code for displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

70. (Original) The computer program product of claim 67 wherein the information of the first type is audio information, and the text information corresponding to the information of the first type is obtained from transcribing the audio information.

71. (Original) The computer program product of claim 67 wherein the information of the first type is closed-caption (CC) text information, and the text information corresponding to the information of the first type is extracted from the CC text information.

72. (Original) The computer program product of claim 67 wherein the multimedia information stored by the multimedia document further comprises slides information, the computer program product further comprising:

code for displaying, in a third section of the first area of the GUI, a first set of one or more slides extracted from the slides information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a second set of one or more slides extracted from the slides information occurring between t_1 and t_2, the second set of one or more slides is a subset of the first set of one or more slides; and

code for displaying the second set of one or more slides in a third section of the second area of the GUI

73. (Original) The computer program product of claim 72 further comprising:

code for displaying a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more slides extracted from the slides information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more slides is a subset of the second set of one or more slides, and ($t_1 \leq t_3 < t_4 \leq t_2$);

code for displaying at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

code for displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

displaying at least one slide from the third set of one or more slides in a third section of the third area of the GUI.

74. (Original) The computer program product of claim 67 wherein the multimedia information stored by the multimedia document further comprises whiteboard images information, the computer program product further comprising:

code for displaying, in a third section of the first area of the GUI, a first set of one or more whiteboard images extracted from the whiteboard images information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a second set of one or more whiteboard images extracted from the whiteboard images information occurring between t_1 and t_2, the second set of one or more whiteboard images is a subset of the first set of one or more whiteboard images; and

code for displaying the second set of one or more whiteboard images in a third section of the second area of the GUI.

75. (Original) The computer program product of claim 74 further comprising:

code for displaying a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more whiteboard images extracted from the whiteboard images information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more whiteboard images is a subset of the second set of one or more whiteboard images, and ($t_1 \leq t_3 < t_4 \leq t_2$);

code for displaying at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

code for displaying text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

code for displaying a whiteboard images from the third set of one or more whiteboard images in a third section of the third area of the GUI.

76. (Original) A system for displaying multimedia information stored in a multimedia document, the multimedia information comprising information of a plurality of types including information of a first type and information of a second type, the system comprising:

a display;

a processor; and

a memory coupled to the processor, the memory configured to store a plurality of code modules for execution by the processor, the plurality of code modules comprising:

a code module for displaying a graphical user interface (GUI) on the display;

a code module for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type and a representation of information of the second type;

a code module for displaying a first lens covering a first portion of the first area; and

a code module for displaying, in a second area of the GUI, a representation of multimedia information displayed in the first portion of the first area, the representation of multimedia information displayed in the second area comprising a portion of the representation of information of the first type covered by the first lens and a portion of the representation of information of the second type covered by the first lens.

77. (Original) The system of claim 76 wherein the code module for displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

a code module for displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

a code module for displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type.

78. (Original) The system of claim 76 wherein the code module for displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

a code module for displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

a code module for displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI.

79. (Original) The system of claim 76 wherein the code module for displaying, in the second area of the GUI, the representation of multimedia information displayed in the first portion of the first area comprises:

a code module for determining a first time and a second time associated with the first lens;

a code module for displaying, in the second area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the first lens; and

a code module for displaying, in the second area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the first lens.

80. (Original) The system of claim 76 wherein the plurality of code modules further comprises:

a code module for receiving user input moving the first lens to cover a second portion of the first area; and

responsive to the user input, a code module for automatically changing the information displayed in the second area of the GUI such that the representation of multimedia

information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area.

81. (Original) The system of claim 76 wherein the plurality of code modules further comprises:

a code module for displaying a second lens covering a first portion of the second area; and

a code module for displaying, in a third area of the GUI, a representation of multimedia information corresponding to the first portion of the second area, the representation of multimedia information displayed in the third area comprising a portion of the representation of information of the first type covered by the second lens and a portion of the representation of information of the second type covered by the second lens.

82. (Original) The system of claim 81 wherein the code module for displaying, in the third area of the GUI, the representation of multimedia information corresponding to the first portion of the second area comprises:

a code module for determining a first time and a second time associated with the second lens;

a code module for displaying, in the third area of the GUI, a representation of information of the first type occurring between the first time and the second time associated with the second lens; and

a code module for displaying, in the third area of the GUI, a representation of information of the second type occurring between the first time and the second time associated with the second lens.

83. (Original) The system of claim 81 wherein:

the code module for displaying the representation of the multimedia information stored by the multimedia document in the first area of the GUI comprises:

a code module for displaying a first thumbnail image in the first area of the GUI, the first thumbnail image comprising the representation of information of the first type; and

a code module for displaying a second thumbnail image in the first area of the GUI, the second thumbnail image comprising the representation of information of the second type;

the code module for displaying the representation of multimedia information displayed in the first portion of the first area in the second area of the GUI comprises:

a code module for displaying the portion of the representation of information of the first type covered by the first lens in a first panel in the second area of the GUI; and

a code module for displaying the portion of the representation of information of the second type covered by the first lens in a second panel in the second area of the GUI; and

the code module for displaying the representation of multimedia information corresponding to the first portion of the second area in the third area of the GUI comprises:

a code module for displaying the representation of information of the first type corresponding to the first portion of the second area of the GUI in a first sub-area of the third area of the GUI; and

a code module for displaying the representation of information of the second type corresponding to the first portion of the second area of the GUI in a second sub-area of the third area of the GUI.

84. (Original) The system of claim 81 wherein the plurality of code modules further comprises:

a code module for receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, a code module for automatically changing the information displayed in the third area of the GUI such that the representation of multimedia

information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

85. (Original) The system of claim 81 wherein the plurality of code modules further comprises:

a code module for receiving a user input moving the first lens to cover a second portion of the first area; and

responsive to the user input, a code module for automatically:

changing the information displayed in the second area of the GUI such that the representation of multimedia information displayed in the second area of the GUI corresponds to the representation of multimedia information included in the second portion of the first area; and

changing the information displayed in the third area of the GUI such that the representation of multimedia information displayed in the third area of the GUI corresponds to the representation of the multimedia information included in the second portion of the second area.

86. (Original) The system of claim 81 wherein the plurality of code modules further comprises:

a code module for displaying a sub-lens covering a portion of the first area of the GUI corresponding to the first portion of the second area of the GUI covered by the second lens.

87. (Original) The system of claim 86 wherein the plurality of code modules further comprises:

a code module for receiving a user input moving the second lens to cover a second portion of the second area; and

responsive to the user input, a code module for automatically changing a position of the sub-lens to cover a portion of the first area of the GUI corresponding to the second portion of the second area.

88. (Original) The system of claim 76 wherein:

the information of the first type corresponds to video information; and

the representation of the information of the first type comprises one or more video keyframes extracted from the video information.

89. (Original) The system of claim 88 wherein:

the information of the second type corresponds to audio information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

90. (Original) The system of claim 88 wherein:

the information of the second type corresponds to closed-caption (CC) text information; and

the representation of information of the second type comprises text information included in the CC text information.

91. (Original) The system of claim 76 wherein the plurality of code modules further comprises:

a code module for receiving information indicating a user-specified concept of interest; and

a code module for analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the user-specified concept of interest;

wherein the code module for displaying the representation of multimedia information in the first area of the GUI comprises a code module for annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest; and

wherein the code module for displaying, in the second area of the GUI, a representation of multimedia information displayed in the first portion of the first area comprises

a code module for annotating the one or more locations in the multimedia information that are relevant to the user-specified concept of interest and that are located in the first portion of the first area.

92. (Original) The system of claim 76 wherein the plurality of code modules further comprises:

a code module for receiving input indicating selection of a portion of the multimedia information occurring between a first time and a second time; and

a code module for performing a first operation on the portion of the multimedia information occurring between a first time and a second time.

93. (Original) A system for displaying multimedia information stored in a multimedia document, the multimedia information comprising information of a first type and information of a second type, the system comprising:

a display;

a processor; and

a memory coupled to the processor, the memory configured to store a plurality of code modules for execution by the processor, the plurality of code modules comprising:

a code module for displaying a graphical user interface (GUI) on the display;

a code module for displaying, in a first area of the GUI, a representation of the multimedia information stored by the multimedia document occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, the displayed representation of the multimedia information comprising a representation of information of the first type occurring between t_s and t_e and a representation of information of the second type occurring between t_s and t_e, where ($t_e > t_s$);

a code module for displaying a first lens emphasizing a portion of the first area of the GUI, the portion of the first area emphasized by the first lens comprising a representation of multimedia information occurring between a first time (t_1) and a second time (t_2), where ($t_s \leq t_1 < t_2 \leq t_e$); and

a code module for displaying, in a second area of the GUI, the representation of multimedia information occurring between t_1 and t_2, the representation of multimedia information displayed in the second area comprising a representation of information of the first type occurring between t_1 and t_2 and a representation of information of the second type occurring between t_1 and t_2.

94. (Original) The system of claim 93 wherein the plurality of code modules further comprises:

a code module for displaying a second lens emphasizing a portion of the second area of the GUI, the portion of the second area emphasized by the second lens comprising a representation of multimedia information occurring between a third time (t_3) and a fourth time (t_4), where ($t_1 \leq t_3 < t_4 \leq t_2$); and

a code module for displaying, in a third area of the GUI, the representation of multimedia information occurring between t_3 and t_4, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_3 and t_4 and a representation of information of the second type occurring between t_3 and t_4.

95. (Original) The system of claim 94 wherein the plurality of code modules further comprises:

a code module for changing the position of the first lens in response to user input such that the first lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_s \leq t_5 < t_6 \leq t_e$), ($t_5 \neq t_1$), and ($t_6 \neq t_2$); and

responsive to the change in the position of the first lens, a code module for automatically displaying, in the second area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the second area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

96. (Original) The system of claim 94 wherein the plurality of code modules further comprises:

a code module for changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

responsive to the change in the position of the second lens, a code module for automatically displaying, in the third area of the GUI, the representation of multimedia information occurring between t_5 and t_6, the representation of multimedia information displayed in the third area comprising a representation of information of the first type occurring between t_5 and t_6 and a representation of information of the second type occurring between t_5 and t_6.

97. (Original) The system of claim 94 wherein the plurality of code modules further comprises:

a code module for displaying a third lens emphasizing a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_3 and t_4.

98. (Original) The system of claim 97 wherein the plurality of code modules further comprises:

a code module for changing the position of the second lens in response to user input such that the second lens emphasizes a portion of the second area of the GUI comprising a representation of multimedia information occurring between a fifth time (t_5) and a sixth time (t_6), where ($t_1 \leq t_5 < t_6 \leq t_2$), ($t_5 \neq t_3$), and ($t_6 \neq t_4$); and

responsive to the change in the position of the second lens, a code module for automatically changing the position of the third lens such that the third lens emphasizes a portion of the first area of the GUI comprising a representation of multimedia information occurring between t_5 and t_6.

99. (Original) The system of claim 93 wherein:

the information of the first type is video information;

the information of the second type is audio information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of information of the second type comprises text information obtained from transcribing the audio information.

100. (Original) The system of claim 93 wherein:

the information of the first type is video information;

the information of the second type is closed-caption (CC) text information;

the representation of the information of the first type comprises one or more video keyframes extracted from the video information; and

the representation of the information of the second type comprises text information included in the CC text information.

101. (Original) The system of claim 93 wherein the plurality of code modules further comprises:

a code module for receiving information indicating a first topic; and

a code module for analyzing the multimedia information stored in the multimedia document to identify one or more locations in the multimedia information that are relevant to the first topic;

wherein the code module for displaying the representation of the multimedia information stored by the multimedia document occurring between t_s and t_e in the first area of the GUI comprises a code module for highlighting the one or more locations in the multimedia information displayed in the first area of the GUI; and

wherein the code module for displaying the representation of multimedia information occurring between t_1 and t_2 in the second area of the GUI comprises a code module for highlighting the one or more locations in the multimedia information that occur between times t_1 and t_2.

102. (Original) The system of claim 93 wherein the plurality of code modules further comprises:

a code module for receiving input indicating selection of a portion of the multimedia information occurring between a selection start time and a selection end time; and

a code module for performing a first operation on the portion of the multimedia information occurring between the selection start time and the selection end time.

103. (Original) A system of displaying multimedia information stored in a multimedia document on a display, the multimedia information comprising video information and information of a first type, the system comprising:

a display;

a processor; and

a memory coupled to the processor, the memory configured to store a computer program;

wherein the processor is operative with the computer program to:

display a graphical user interface (GUI) on the display;

display, in a first section of a first area of the GUI, a first set of one or more video keyframes extracted from the video information occurring between a start time (t_s) and an end time (t_e) associated with the multimedia document, where ($t_e > t_s$);

display, in a second section of the first area of the GUI, text information corresponding to the information of the first type occurring between t_s and t_e;

display a first lens emphasizing a portion of the first section of the first area occurring between a first time (t_1) and a second time (t_2) and a portion of the second section of the first area occurring between t_1 and t_2, the emphasized portion of the first section of the first area comprising a second set of one or more video keyframes extracted from the video information occurring between t_1 and t_2, the emphasized portion of the second section of the first area comprising text information corresponding to information of the first type occurring between t_1 and t_2, wherein the second set of one or more keyframes is a subset of the first set of one or more keyframes and ($t_s \leq t_1 < t_2 \leq t_e$);

display the second set of one or more keyframes in a first section of a second area of the GUI; and

display text information corresponding to the information of the first type occurring between t_1 and t_2 in a second section of the second area of the GUI.

104. (Original) The system of claim 103 wherein the processor is operative with the computer program to:

display a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

display a keyframe from the third set of one or more keyframes in a first section of a third area of the GUI; and

display text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

105. (Original) The system of claim 103 wherein the processor is operative with the computer program to:

display a second lens emphasizing a portion of the first section of the second area and a portion of the second section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, wherein the third set of one or more

video keyframes is a subset of the second set of one or more video keyframes and ($t_1 \leq t_3 < t_4 \leq t_2$);

output video information starting from t_3 or from t_4 or from a time between t_3 and t_4 in a first section of a third area of the GUI; and

display text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI.

106. (Original) The system of claim 103 wherein the information of the first type is audio information, and the text information corresponding to the information of the first type is obtained from transcribing the audio information.

107. (Original) The system of claim 103 wherein the information of the first type is closed-caption (CC) text information, and the text information corresponding to the information of the first type is extracted from the CC text information.

108. (Original) The system of claim 103 wherein the multimedia information stored by the multimedia document further comprises slides information, and wherein the processor is operative with the computer program to:

display, in a third section of the first area of the GUI, a first set of one or more slides extracted from the slides information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a second set of one or more slides extracted from the slides information occurring between t_1 and t_2, the second set of one or more slides is a subset of the first set of one or more slides; and

display the second set of one or more slides in a third section of the second area of the GUI

109. (Original) The system of claim 108 wherein the processor is operative with the computer program to:

display a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second

area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more slides extracted from the slides information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more slides is a subset of the second set of one or more slides, and ($t_1 \leq t_3 < t_4 \leq t_2$);

display at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

display text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

display at least one slide from the third set of one or more slides in a third section of the third area of the GUI.

110. (Original) The system of claim 103 wherein the multimedia information stored by the multimedia document further comprises whiteboard images information, and wherein the processor is operative with the computer program to:

display, in a third section of the first area of the GUI, a first set of one or more whiteboard images extracted from the whiteboard images information occurring between t_s and t_e, wherein the first lens emphasizes a portion of the third section of the first area comprising a second set of one or more whiteboard images extracted from the whiteboard images information occurring between t_1 and t_2, the second set of one or more whiteboard images is a subset of the first set of one or more whiteboard images; and

display the second set of one or more whiteboard images in a third section of the second area of the GUI.

111. (Original) The system of claim 110 wherein the processor is operative with the computer program to:

display a second lens emphasizing a portion of the first section of the second area, a portion of the second section of the second area, and a portion of the third section of the second area, the emphasized portion of the first section of the second area comprising a third set of one or more video keyframes extracted from the video information occurring between a third time (t_3) and a fourth time (t_4), the emphasized portion of the second section of the second area comprising text information corresponding to information of the first type occurring between t_3 and t_4, the emphasized portion of the third section of the second area comprising a third set of one or more whiteboard images extracted from the whiteboard images information occurring between t_3 and t_4, wherein the third set of one or more video keyframes is a subset of the second set of one or more video keyframes, the third set of one or more whiteboard images is a subset of the second set of one or more whiteboard images, and ($t_1 \leq t_3 < t_4 \leq t_2$);

display at least one keyframe from the third set of one or more video keyframes in a first section of a third area of the GUI;

display text information corresponding to the information of the first type occurring between t_3 and t_4 in a second section of the third area of the GUI; and

display a whiteboard images from the third set of one or more whiteboard images in a third section of the third area of the GUI.